

Attorney's Docket No.: 07039-14500

HE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael Toft Overgaard, et al.

Art Unit : Unknown

Serial No.: 09/936,602

Examiner: Unknown

Filed

: September 14, 2001

Title

INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN-4 PROTEASE

Commissioner for Patents Washington, D.C. 20231

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

- Information Disclosure Statement (1 page); 1.
- 2. Form PTO-1449 (3 pages);

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- 3. Copies of Cited References (38);
- Copy of International Search Report (4 pages); and 4.

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Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Monica McCormick Graham, Ph.D.

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Substitute Form PTO-1449 (Módified)

(37 CFR §1.98(b))

U.S. Department of Commerce Patent and Trademark

Attorney's Docket No. 07039-145001

Application No. 09/936,602

Information Disclosure Statement

by Applicant (Use several sheets if necessary)

Wicant

Michael Toft Overgaard, et al.

Filing Date

Group Art Unit

September 14, 2001

Unknown

	U.S. Pater Documents						
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
_	AA	5,876,433	03/02/99	Lunn			
	AB	6,172,198	01/09/01	Sinosich			

	Foreign Patent Documents or Published Foreign Patent Applications								
Examiner	Desig.	Document	Publication	Country or			Trans	Translation	
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No	
	AC	WO 94/21686	09/29/94	PCT					
	AD	WO 99/32620	07/01/99	PCT					
	AE	WO 00/54806	09/21/00	PCT					

(Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Initial	Desig. ID	Document			
	AF	GenBank Accession No. J02642			
	AG	GenBank Accession No. J04038			
	AH	GenBank Accession No. M10277			
	AI	GenBank Accession No. M34462			
	AJ	GenBank Accession No. X00351			
	AK	GenBank Accession No. X14088			
	AL	GenBank Accession No. X68280			
	AM	Ausubel et al. (eds.), Short Protocols In Molecular Biology, 2 nd Edition, 1992, Chapter 11, Greene Publishing Associates and John Wiley & Sons, New York, pp. 11-1 – 11-54			
	AN	Bersinger and Klopper, "The pattern of serum levels of pregnancy-associated plasma protein A (PAPP-A) during the ovulatory mentrual cycle," Br. J. Obstet. Gynaecol., 1984, 91:1245-1248			
	AO	Bischof et al., "Is pregnancy-associated plasma protein A a tumor marker?" Am. J. Obstet. Gynecol., 1982, 143:379			
	AP	Bonno et al., "Localization of Pregnancy-Associated Plasma Protein-A and Colocalization of Prenancy-Associated Plasma Protein-A Messenger Ribonucleic Acid and Eosinophil Granule Major Basic Protein Messenger Ribonucleic Acid in Placenta," <u>Lab. Invest.</u> , 1994, 71(4);560-566			
	AQ	Cataldo et al., "Regulation of Insulin-Like Growth Factor Binding Protein Production by Human Luteinizing Granulosa Cells Cultured in Defined Medium," J. Clin. Endocrinol. Metab., 1993, 76:207-215			
	AR	Cataldo et al., "Interferon-γ and Activin A Promote Insulin-Like Growth Factor-Binding Protein-2 and –4 Accumulation by Human Luteinizing Granulosa Cells, and Interferon-γ Promotes Their Apoptosis," J. Clin. Endocrinol. Metab., 1998, 83:179-186			

Examiner	Signat	ture
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Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	Form	PTO-1449
(Modified)		

U.S. Department of Commerce Patent and Trade (13th Office Attorney's Docket No. 07039-145001

Application No. 09/936,602

Information Disclosure Statement by Applicant

(Use several sheets if necessary)

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chael Toft Overgaard, et al.

g Date

Group Art Unit

(37 CFR §1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication

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ID

Chandrasekher et al., "Estrogen- But Not Androgen-Dominant Human Ovarian Follicular

Examiner	Desig.				
Initial	ID	Document Document			
	AS	Chandrasekher et al., "Estrogen- But Not Androgen-Dominant Human Ovarian Follicular Fluid Contains an Insulin-Like Growth Factor Binding Protein-4 Protease," J. Clin. Endocrinol. Metab., 1995, 80(9):2734-2739			
	AT	Chandrasekher et al., "Role of Insulin-Like Growth Factor Binding Protein-4 (IGFBP-4) and IGFBP-4 Protease in Human Granulosa Cell Function," Proceedings of the 28 th Annual Meeting of the Society for the Study of Reproduction, 1995, Davis, California, pp. 82, Abstract # 102			
	AU	Conover et al., "Posttranslational Regulation of Insulin-like Growth Factor Binding Protein-4 in Normal and Transformed Human Fibroblasts," J. Clin. Invest., 1993, 91:1129-1137			
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	AW	Durham et al., "Alterations in Insulin-Like Growth Factor (IGF)-Dependent IGF-Binding Protein-4 Proteolysis in Transformed Osteoblastic Cells," <u>Endocrinology</u> , 1995, 136(4):1374-1380			
	AX	Haaning et al., "Complete cDNA sequence of the preproform of human pregnancy-associated plasma protein-A – Evidence for expression in the brain and induction by cAMP," <u>Eur. J. Biochem.</u> , 1996, 237:159-163			
	AY	Huse et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," Science, 1989, 246:1275-1281			
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	AAA	Kristensen et al., "Amino Acid Sequence of Human Pregnancy-Associated Plasma Protein-A Derived from Cloned cDNA," <u>Biochem.</u> , 1994, 33:1592-1598			
	ABB	Kuhajda and Eggleston, "Pregnancy-Associated Plasma Protein A," <u>Am. J. Pathol.</u> , 1985, 121:342-348			
	ACC	Lawrence et al., "The insulin-like growth factor (IGF)-dependent IGF binding protein-4 protease secreted by human fibroblasts is pregnancy-associated plasma protein-A," Proc. Natl. Acad. Sci.USA , 1999, 96:3149-3153			
	ADD	Lin et al., "Characterization of four human pregnancy-associated plasma proteins," <u>Am. J. Obstet.</u> <u>Gynecol.</u> , 1974, 118(2):223-236			
	AEE	Overgaard et al., "Messenger Ribonucleic Acid Levels of Pregnancy-Associated Plasma Protein-A and the Proform of Eosinophil Major Basic Protein: Expression in Human Reproductive and Nonreproductive Tissues," <u>Biology of Reproduction</u> , 1999, 61:1083-1089			
	AFF	Oxvig et al., "Isolation and characterization of circulating complex between human pregnancy-associated plasma protein-A and proform of eosinophil major basic protein," <u>Biochim. Biophys.</u> <u>Acta</u> , 1994, 1201:415-423			
	AGG	Qin et al., "Double-monoclonal immunofluorometric assays for pregnancy-associated plasma protein A/proeosinophil major basic protein (PAPP-A/proMBP) complex in first-trimester maternal serum screening for Down syndrome," Clin. Chem., 1997, 43(12):2323-2332			
	АНН	Qin et al., "Studies on the Role of Human Insulin-like Growth Factor-II (İGF-II)-Dependent IGF Binding Protein (hIGFBP)-4 Protease in Human Osteoblasts Using Protease-Resistant IGFBP-4 Analogs," J. Bone Mineral Res., 1999, 14(12):2079-2088			
	AII	Schwartz et al., "Restenosis After Balloon Angioplasty – A Practical Proliferative Model in Porcine Coronary Arteries," Circulation, 1990, 82:2190-2200			

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Tradema (Office)	Attorney's Docket No. 07039-145001	Application No. 09/936,602	Q_{μ}
by A	closure Statemen	Appeaant Michael Toft Overgaard	d, et al.	1/N 9 2003
(Use several si (37 CFR §1.98(b))	heets if necessary)	Filing pate See Jember 14, 2001	Group Art Unit Unknown	
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Other Docu	ments (include Author,	litle, Date, and Place	of Publication	Q
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	Other Documents (include Author, Title, Date, and Place of Publication)					
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Initial	ID	Document #				
	AJJ	Seppälä et al., "Pregnancy Proteins in Seminal Plasma, Seminal Vesicles, Preovulatory Follicular Fluid, and Ovary," Annals of the New York Academy of Sciences, 1985, 442:212-226				
	AKK	Sjöberg et al., "Hyperstimulated human preovulatory follicular fluid, luteinized cells of unruptured follicles, and corpus luteum contain pregnancy-associated plasma protein A (PAPP-A)," Fertility and Sterility, 1984, 41(4):551-557				
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Examiner Signature

Date Considered